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Dr. Tom Michalski  
Core Library  
U.S. Dept. of the Interior  
Geological Survey  
Ms 975  
Box 25046, Federal Center  
Denver, Colorado 80225

Dear Dr. Michalski,

Septmeber 14, 1987

I have completed the organic carbon, and inorganic (i.e. skeletal) phosphate concentration measurements on the cores which I sampled at the USGS Core Library in late June. Those results are reported here. I am still working on the XRD determinations and expect to have them completed by October.

Several of the samples were subdivided into silty or sandy ("Sd" or "D") and shaley ("Sh" or "H") lithologies; or upper ("U") and lower ("L") subsamples of the chip if there appeared to be a change in bioturbation, cementation, or sedimentary structures. Samples marked with a "(B)" preceding the sample name and number are bentonites.

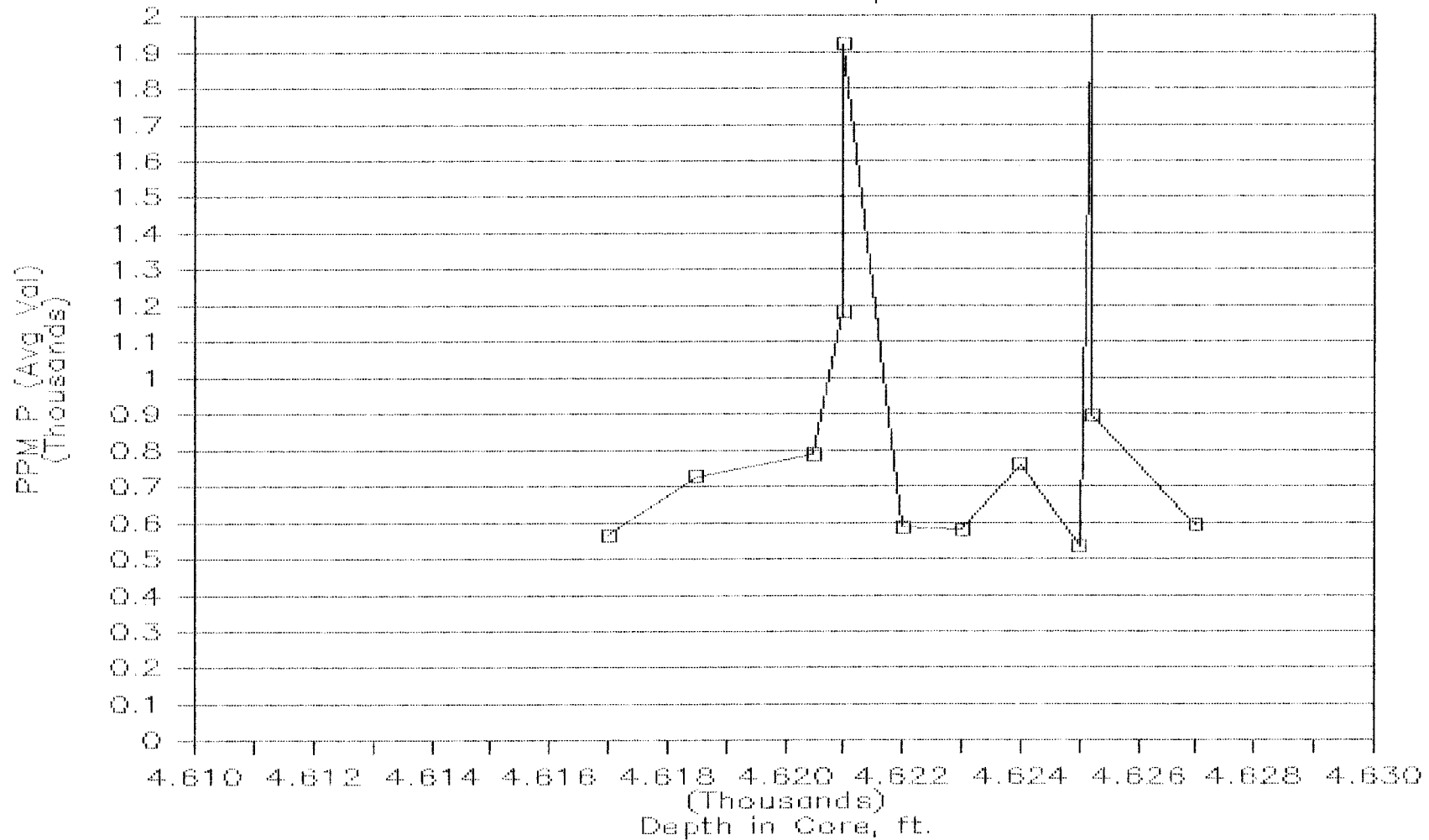
I will include this data in my presentation on P and C variations in the Mowry Shale at the AAPG Conference on "Chemostratigraphy and the Evolution of the Ocean - Atmosphere System", in early October, and possibly also in a talk on vertical and lateral proximity trends in the Mowry, at the GSA Annual Meeting in late October.

USGS Core B002, Wind River Basin, Mowry Shale Interval

Sample No.	Depth ft.	Depth m.	PPM P (1)	PPM P (2)	AVG PPM P	PCNT ORG C
B002-1	4627.0	1410.31	598	586	592	3.00
B002-2H	4625.2	1409.76	905	886	896	2.22
B002-2D	4625.2	1409.76	2218	2130	2174	1.90
B002-3	4625.0	1409.70	539	531	535	3.09
B002-4	4624.0	1409.40	771	749	760	3.22
B002-5	4623.0	1409.09	591	569	580	2.32
B002-6	4622.0	1408.79	594	580	587	2.17
B002-7H	4621.0	1408.48	1982	1861	1922	2.16
B002-7D	4621.0	1408.48	1196	1171	1184	1.56
B002-8	4620.5	1408.33	808	767	788	2.47
B002-9	4618.5	1407.72	726	728	727	2.40
B002-10	4617.0	1407.26	569	561	565	2.63
(B)B002-11	4614.0	1406.35	NA	NA	NA	NA

# Core B002, Wind River Basin

PPM P vs Depth



# USGS Core B002, Wind River Basin

TOC vs Depth

